

Warm-up

$$\frac{2}{3} + \frac{5}{2}$$

$$\frac{4}{6} + \frac{15}{6}$$
$$\frac{19}{6}$$

$$\frac{5}{9} - \frac{8}{3}$$

$$\frac{5}{9} - \frac{24}{9}$$
$$-\frac{19}{9}$$

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8-5 +/- of Rational Expressions

ex1

$$\frac{1}{6x} - \frac{2(2x)}{3(2x)}$$

$$\frac{1 - 4x}{6x}$$

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ex2

$$\frac{1}{x^2 + 5x + 4} + \frac{5x}{3x + 3}$$

Handwritten work:

$$\frac{(8)1}{3(x+4)(x+1)} + \frac{5x(x+4)}{3(x+1)(x+4)}$$

$$\boxed{\frac{5x^2 + 20x + 3}{3(x+4)(x+1)}}$$

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ex3

$$\frac{7y}{5y^2 - 125} - \frac{4}{3y + 15}$$

Handwritten work:

$$\frac{(3)7y}{(3)5(y+5)(y-5)} - \frac{(5)4(y-5)}{(5)3(y+5)(y-5)}$$

$$\frac{21y - 20y + 100}{15(y^2 - 25)} = \frac{y + 100}{15(y^2 - 25)}$$

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ex4

$$\frac{5x}{x^2 - x - 6} - \frac{4}{x^2 + 4x + 4}$$
$$\frac{5x(x+2)}{(x-3)(x+2)} - \frac{4(x-3)}{(x+2)(x+2)}$$
$$\frac{5x^2 + 6x + 12}{(x-3)(x+2)^2}$$

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(2,4,6, 25-30)

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